AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

- 1. (currently amended): An as-grown single crystal of alkaline earth metal fluoride produced by a single crystal pulling method and having a straight barrel part diameter of not less than 17 cm and a light transmittance, as measured at a wavelength of 632.8 nm, of not less than 80%, wherein the as-grown crystal is non-annealed.
- 2. (previously presented): The as-grown single crystal of alkaline earth metal fluoride as claimed in claim 1, wherein the main crystal growth plane is the {111} plane.
- 3. (previously presented): The as-grown single crystal of alkaline earth metal fluoride as claimed in claim 1, wherein the main crystal growth plane is the {100}plane.
- 4. (previously presented): The as-grown single crystal of alkaline earth metal fluoride as claimed in claim 1, wherein the straight barrel part has a length of not less than 5 cm.
- 5. (previously presented): The as-grown single crystal of alkaline earth metal fluoride as claimed in claim 1, wherein the alkaline earth metal fluoride is calcium fluoride.
- 6. (previously presented): The as-grown single crystal of alkaline earth metal fluoride as claimed in claim 1, wherein the alkaline earth metal fluoride is barium fluoride.

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7. (previously presented): The as-grown single crystal of alkaline earth

metal fluoride as claimed in claim 2, wherein the straight barrel part has a length of not less

than 5 cm.

8. (previously presented): The as-grown single crystal of alkaline earth

metal fluoride as claimed in claim 3, wherein the straight barrel part has a length of not less

than 5 cm.

9. (previously presented): The as-grown single crystal of alkaline earth

metal fluoride as claimed in claim 2, wherein the alkaline earth metal fluoride is calcium

fluoride.

10. (previously presented): The as-grown single crystal of alkaline earth

metal fluoride as claimed in claim 3, wherein the alkaline earth metal fluoride is calcium

fluoride.

11. (previously presented): The as-grown single crystal of alkaline earth

metal fluoride as claimed in claim 4, wherein the alkaline earth metal fluoride is calcium

fluoride.

12. (previously presented): The as-grown single crystal of alkaline earth

metal fluoride as claimed in claim 2, wherein the alkaline earth metal fluoride is barium

fluoride.

13. (previously presented): The as-grown single crystal of alkaline earth

metal fluoride as claimed in claim 3, wherein the alkaline earth metal fluoride is barium

fluoride.

14. (previously presented): The as-grown single crystal of alkaline earth

metal fluoride as claimed in claim 4, wherein the alkaline earth metal fluoride is barium

fluoride.

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